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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1269
Disciplina	004/.01/5114
Soggetti	Computers
	Algorithms
	Computer science—Mathematics
	Calculus of variations
	Mathematical statistics
	Theory of Computation
	Algorithm Analysis and Problem Complexity
	Discrete Mathematics in Computer Science
	Calculus of Variations and Optimal Control; Optimization
	Combinatorics
	Probability and Statistics in Computer Science
Lingua di pubblicazione	Inglese
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Nota di contenuto	Polynomial time approximation schemes for some dense instances of NP-hard optimization problems Average-case complexity of shortest-paths problems in the vertex-potential model Approximation algorithms for covering polygons with squares and similar problems Greedily approximating the r-independent set and k-center problems on random instances Nearly linear time approximation schemes for Euclidean TSP and other geometric problems Random sampling of Euler tours A combinatorial consistency lemma with application to proving the PCP theorem

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	Super-bits, demi-bits, and NP/qpoly-natural proofs Sample spaces with small bias on neighborhoods and error-correcting communication protocols Approximation on the web: A compendium of NP optimization problems Random-based scheduling new approximations and LP lower bounds 'Go with the winners' generators with applications to molecular modeling Probabilistic approximation of some NP optimization problems by finite-state machines Using hard problems to derandomize algorithms: An incomplete survey Weak and strong recognition by 2-way randomized automata Tally languages accepted by Monte Carlo pushdown automata Resource-bounded randomness and compressibility with respect to nonuniform measures Randomness,
Sommario/riassunto	stochasticity and approximations. This book constitutes the refereed proceedings of the International Workshop on Randomization and Approximation Techniques in Computer Science, RANDOM'97, held as a satelite meeting of ICALP'97, in Bologna, Italy, in July 1997. The volume presents 14 thoroughly revised full papers selected from 37 submissions; also included are four invited contributions by leading researchers. The book focuses on algorithms and complexity aspects arising in the development of efficient randomized solutions to computationally difficult problems. The papers are organized in sections on approximation, randomness, algorithms, and complexity.